

## Session 1 Assignment Sheet:

### 1. Read *Extending Children's Mathematics*:

- Foreword (pp. xi-xiv)
- Introduction (pp. xvii –xxvi)
- Chapter 1 (pp. 2-31)

### 2. Discussion Questions:

Write out answers to the following questions, so you are prepared to discuss your thoughts during session 2:

- Which Iowa Core Mathematics standards might be developed with Equal Sharing problems? Explain your thinking.
- The authors recommend teachers do **not** provide children with access to premade fraction manipulatives, but rather provide blank paper, crayons, pencils, and scissors. What is the rationale for this? Do you agree with this recommendation?

### 3. Implementation Assignment 1:

- Pose the brownie problem to your students without providing instruction on how to solve it. (Read “How to Begin” p. 11.) Read the problem with your students regardless of their grade level. If a student solves this problem by using the standard division algorithm, ask him or her to solve the problem using a second strategy.
- Collect your students' work and bring it with you to session 2.

Brownie Problem:

Four children want to share 10 brownies so that everyone gets exactly the same amount and there are none leftover. How much brownie can each child have?

### 4. Optional:

- Complete “Multiplication and Division Problem Types” challenge problem on page 2.